

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: :
:
Masaharu Ikeda et al. :
:
Serial No.: To be assigned : Art Unit: To be assigned
:
Filed: Herewith : Examiner: To be assigned
:
For: PRESSURE TRANSDUCER : Atty Docket: 20402/0642
AND MANUFACTURING :
METHOD THEREOF :
:
:

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to initial examination, please amend the above-captioned case as follows.

IN THE SPECIFICATION:

Page 1, before the first paragraph, insert

--This application is a divisional of U.S. Serial No. 09/342,065, filed June 29,
1999.--

IN THE CLAIMS:

Kindly cancel claims 1-11, without prejudice or disclaimer.

REMARKS

None of these amendments is believed to involve any new matter. Accordingly, it is respectfully requested that the foregoing amendments be entered, that the application as so amended receive an examination on the merits, and that the claims as now presented receive an early allowance.

Respectfully submitted,



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2/26/02

MARKED-UP REVISIONS

1. (Amended) A pressure transducer comprising:
- a substrate having a first surface and a second surface opposed to the first surface;
 - a fixed electrode formed in the first surface of said substrate;
 - a diaphragm attached at a peripheral portion thereof to the first surface of said substrate and extending above said first surface so as to form a cavity between a central portion thereof and said fixed electrode above said first surface, said diaphragm having a moving electrode opposed to said fixed electrode through the cavity and being deformed in response to an applied pressure to change a distance between the moving electrode and said fixed electrode as a function of the applied pressure; [and]
 - a hole formed in said substrate which extends from the second surface to the cavity; and
 - at least one radial groove which is formed in the first surface of said substrate within the cavity and which communicates at a first end thereof with said hole.

11. (Amended) A pressure transducer as set forth in claim 1, wherein said substrate has [a] an additional groove formed in the first surface, and wherein the peripheral portion of said diaphragm partially projects to the groove to increase adhesion of said diaphragm to the first surface of said substrate.